


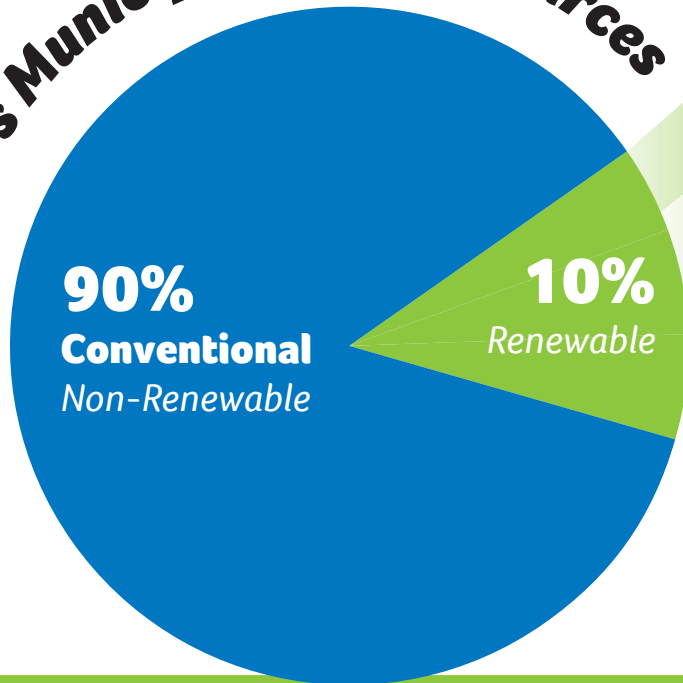
# Municipal Operations 2020 Energy and Emissions Inventory

## Moving Toward a Renewable Regina

The City of Regina's goal is to achieve net-zero carbon emissions and sourcing net-zero energy from renewable sources by 2050. The primary focus is on climate change mitigation through a three-pronged approach:

-  Reducing energy consumption
- Improving energy usage/efficiency
- Switching to renewable or low carbon energy sources

### City of Regina's Municipal Energy Sources



Landfill Gas to Energy **1%** ↓\*

City Biogas **2%** ↓\*\*

Green from SaskPower **7%** ↑

\*down from 4% in 2019 due to planned installation of units that improve the quality of gas.

\*\*down from 5% in 2019 due to planned restructuring of boilers

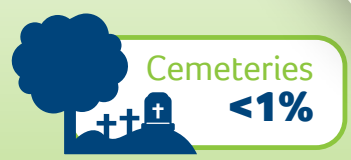
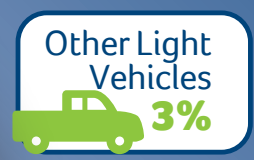
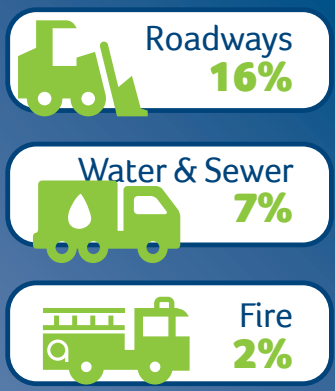
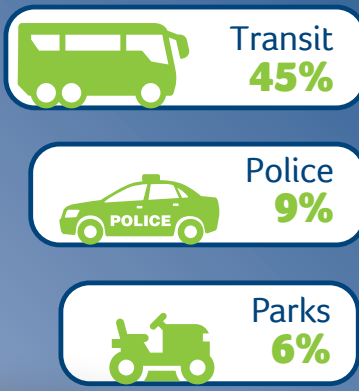
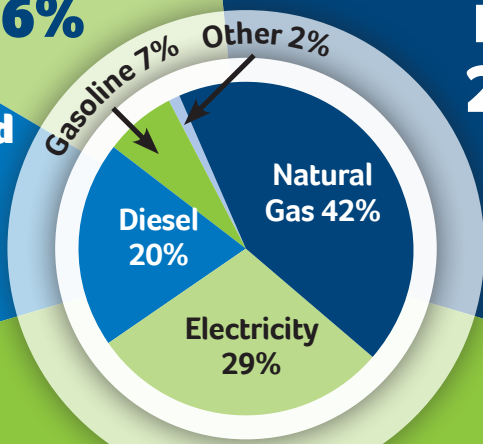
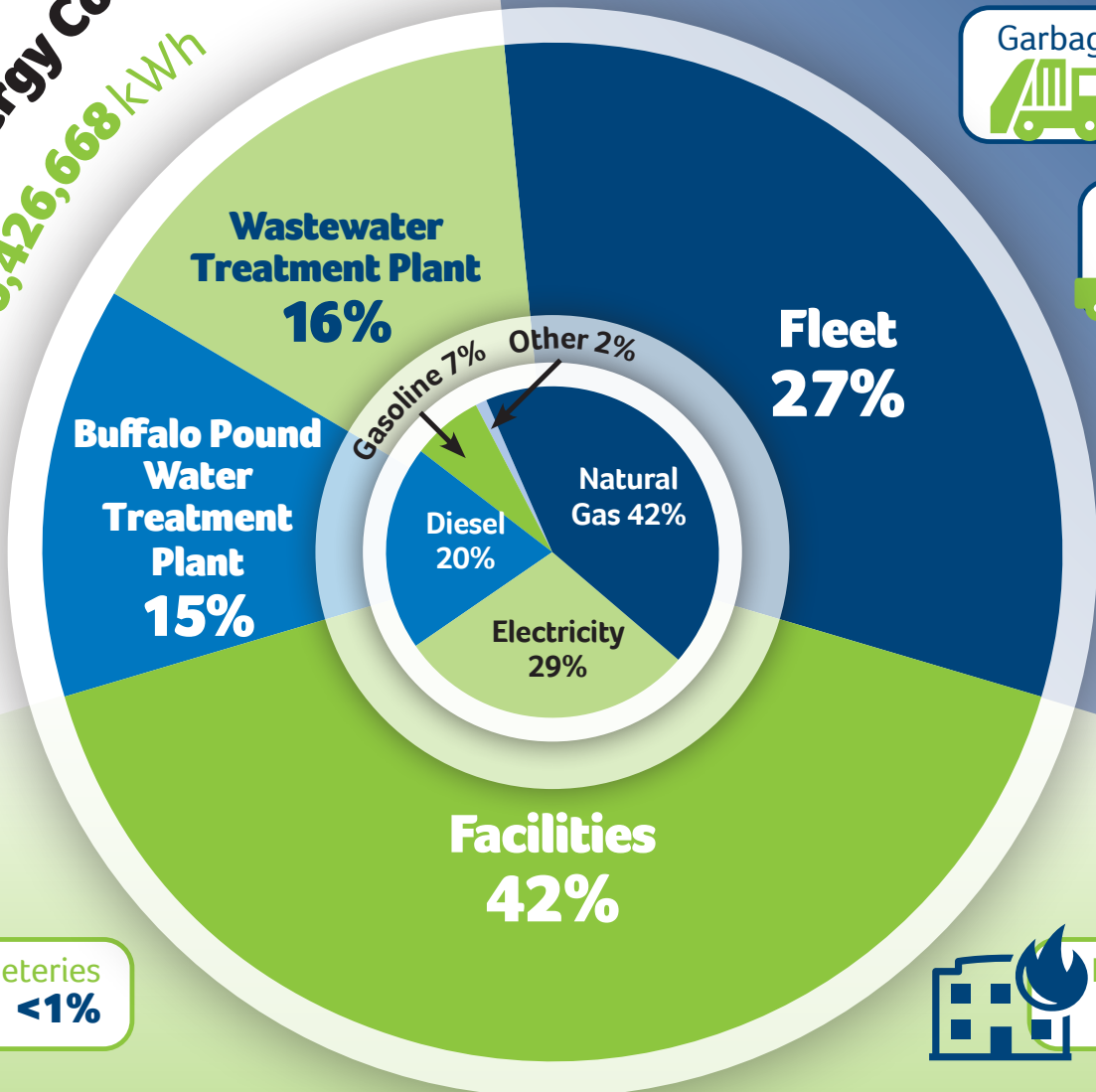
**Total Energy Generated:  
6,800,000 kWh**

Reflects municipal operations only  
Equivalent to powering 944 homes



Net zero renewable community = Greenhouse Gas (GHG) removed from air & Renewable Energy Used ≥ GHG Emissions & Non-Renewable Energy Used

**TOTAL Municipal Energy Consumption:**  
230,426,668 kWh



# Regina's Renewable Journey

The Energy & Sustainability Framework is under development and is scheduled to be complete by the end of 2021. The Framework will outline the actions needed to achieve a renewable Regina by 2050, focusing on land use and transportation planning, development and building permit guidelines, energy efficient building design, waste management, energy conservation, regulatory and financial tools, among other components.

The City of Regina's commitment to being renewable by 2050 is reinforced by policies in *Design Regina: The Official Community Plan (OCP)* which outlines a community vision for Regina to be "Canada's most vibrant, inclusive, attractive, sustainable community, where people live in harmony and thrive in opportunity."

Operationally, the City has continued to advance OCP policies through projects that have reduced emissions, energy consumption and the organization's environmental impact, and which bring us closer to a renewable Regina.



## Environment

### Goal D2:

"To protect, promote and expand Regina's urban forest and street tree canopy"



## Transportation

### Goal D3:

"To create sustainable transportation choices"

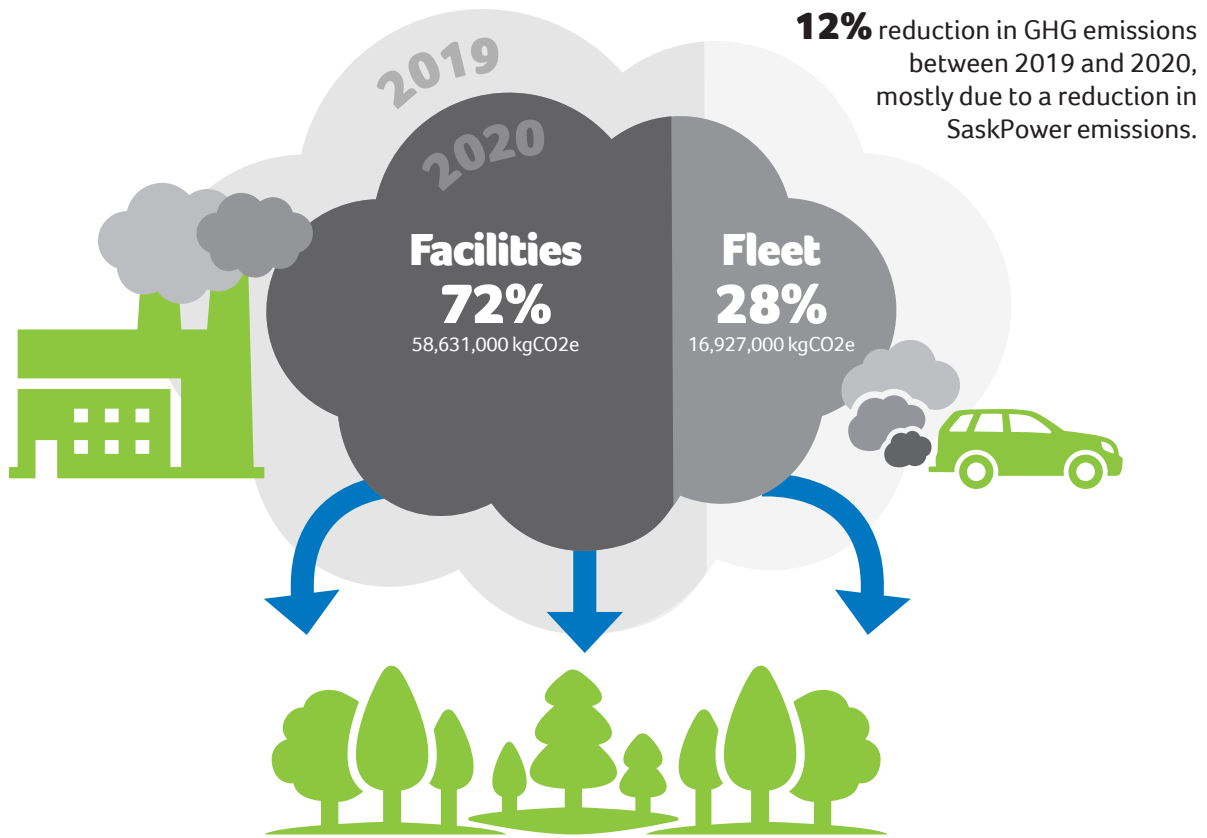


## Infrastructure

### Goal D4:

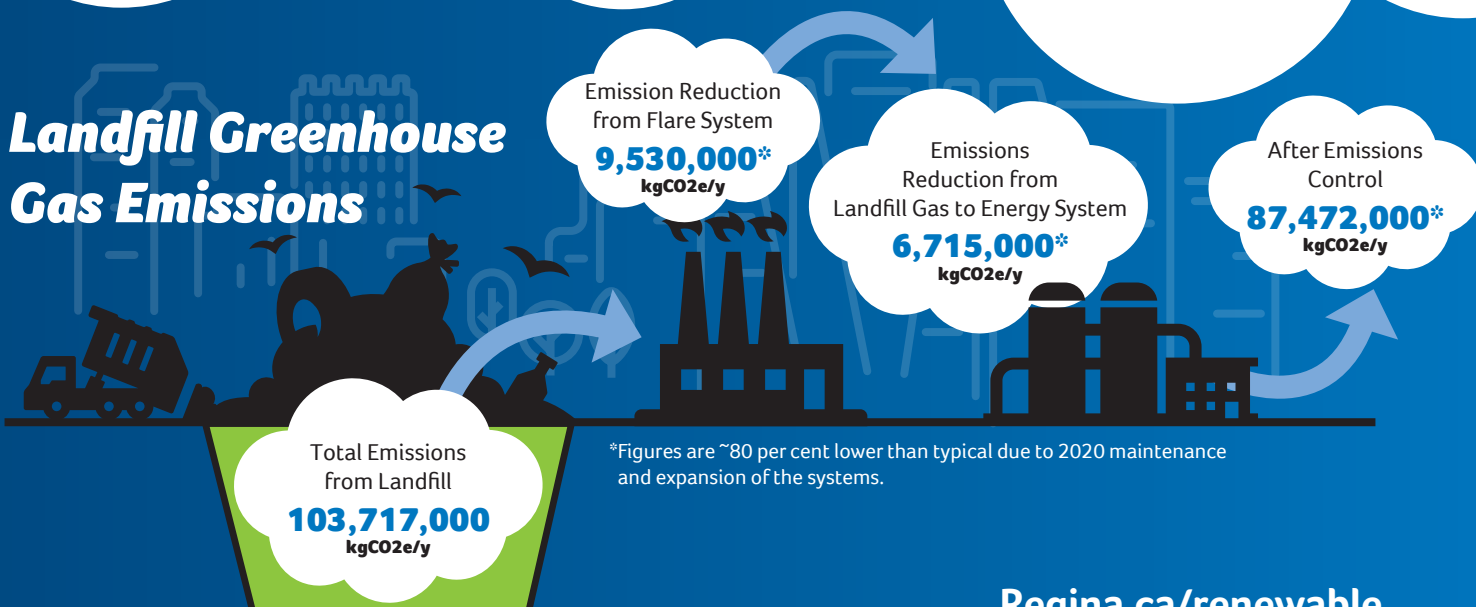
"To design infrastructure that conserves resources and minimizes impacts on the environment"

# 2020 Municipal Greenhouse Gas (GHG) Emissions From Energy Consumption



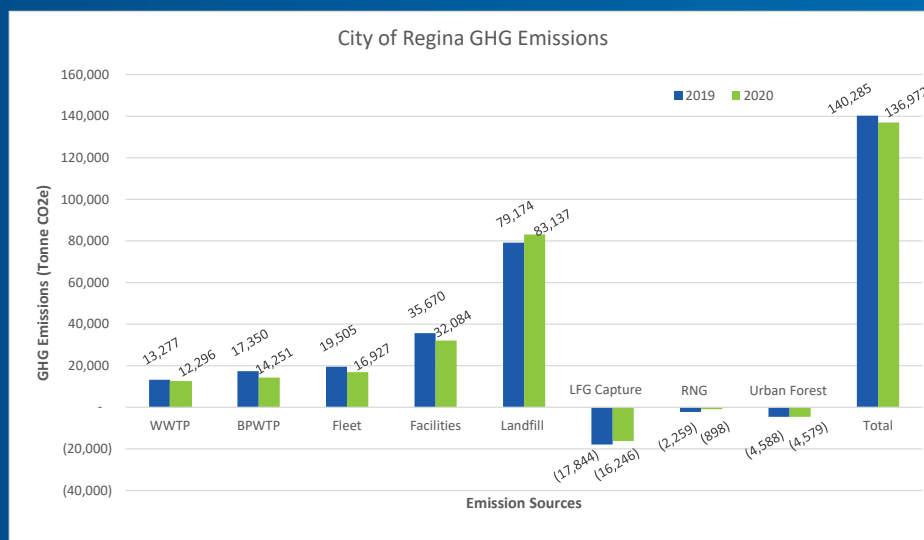
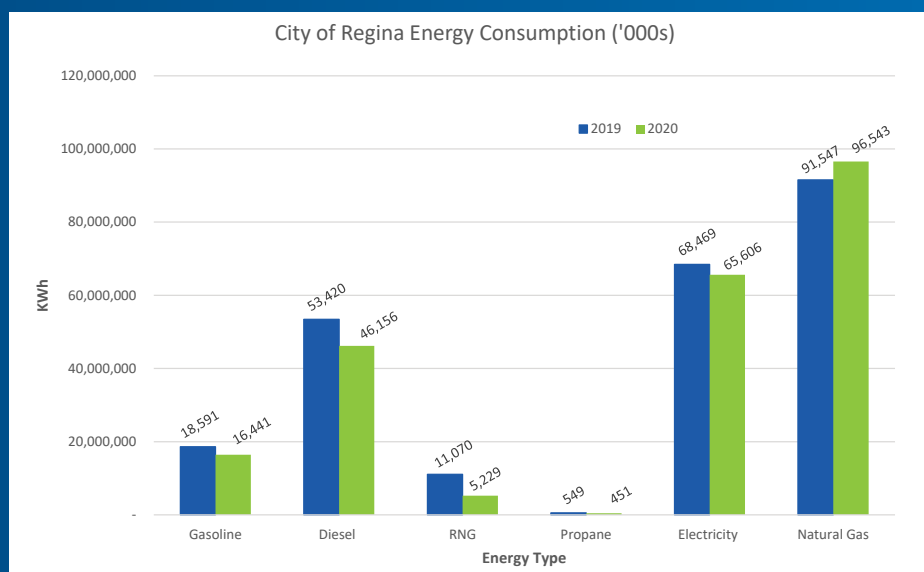
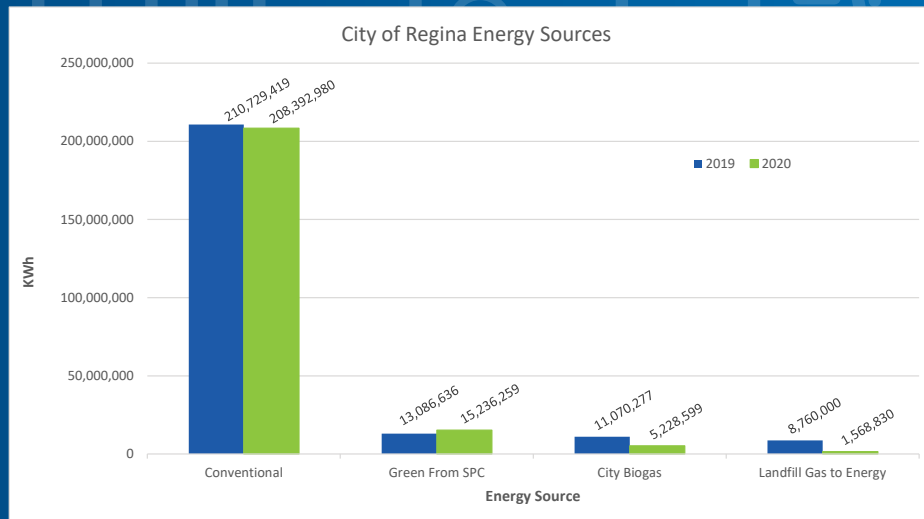
In 2020, the City of Regina maintained an inventory of 178,651 City-owned trees throughout the community. This vital urban forest is responsible for absorbing carbon and reducing GHG emissions by 6% (4,579,000 kg).

## Landfill Greenhouse Gas Emissions



# Year Over Year Comparison

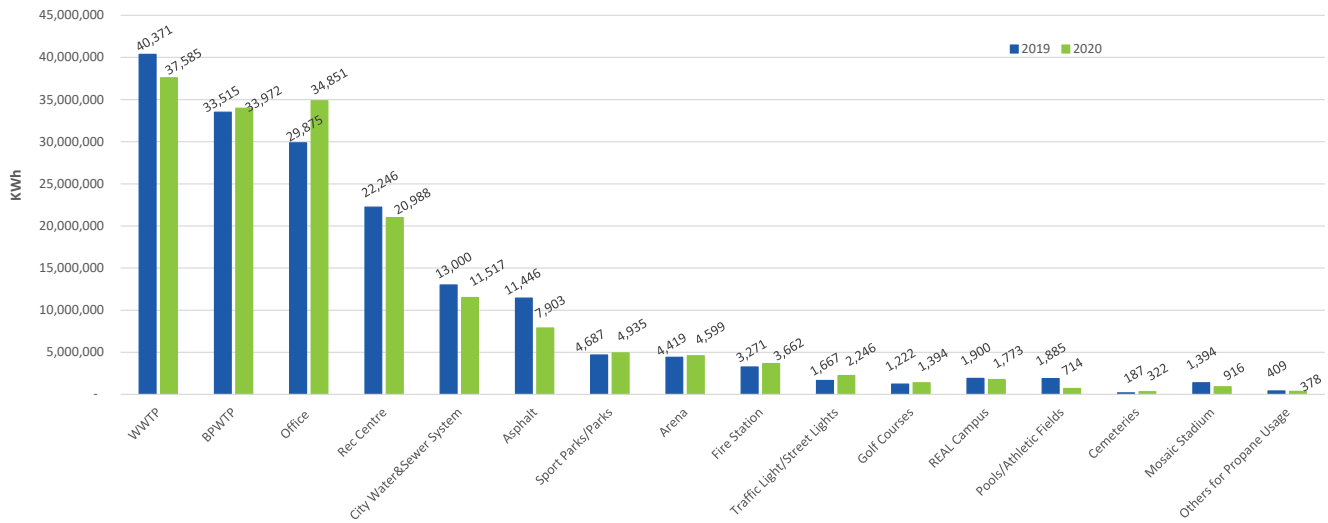
## 2019-2020



# Year Over Year Comparison

## 2019-2020

Facilities: Energy Consumptions ('000s)



Fleet: Energy Consumptions ('000s)

